3611 South Harbor Boulevard
Suite 260
Santa Ana, CA 92704
731.431.4100
Fax 714.825.0685

January 8, 2003

Mr. Roger Baker
City Planner
CITY OF BURBANK
275 East Olive Avenue
Burbank, California 91502

Clayton Project No. 80-98191.01

Subject: Status Report of Vapor Extraction System Operation - Lockheed-Martin B-1 Site – July 27, 2002 through October 30, 2002

Dear Mr. Baker:

The following status report has been prepared by Clayton Group Services, Inc. (Clayton) for the Vapor Extraction System (VES) operation at Lockheed-Martin B-1 Site for the period between July 27, 2002 and October 30,2002. It includes the following items:

- Background
- Clayton Field Activities
- Results of Laboratory Analysis
- Health Risk Assessment Calculations
- Conclusions

BACKGROUND

Alton Geoscience conducted a "Phase I" and "Phase II" of VES effluent sampling and health risk assessment for the Lockheed-Martin B-1 facility. Phase I consisted of twelve weekly health risk reports based on samples collected between September 2, 1997 and February 9, 1998. Phase II included twelve bi-weekly health risk assessments based on samples collected between February 16, 1998 and September 9, 1998. Phase III consisted of monthly sampling between October and December 1998.

Phase IV of the VES effluent sampling consists of VES effluent sample acquisition, laboratory analyses, and health risk assessments to be performed once per quarter for the remainder of the project. The first and second quarterly health risk assessments were provided by Alton in reports dated January 18, 1999 and May 24, 1999, respectively.

Clayton subsequently has conducted quarterly sampling of the units and has routinely reported the results. These reports were issued as follows:

- November 23, 1999, which addressed the temporary shutdown of the system on October 14, 1999 for rebound testing;
- March 13, 2000, for the period following restart of the system;
- May 16, 2000 for the period through March 2000;
- March, July 12, 2000 for the period through June 2000
- November 17, 2000, for the period through September 2000.
- February 22, 2001, for the period through January 2001
- May 31, 2001, for the period through April 2001
- August 21, 2001, for the period through August 5, 2001
- November 12, 2001 for the period through October 19, 2001
- March 29, 2002 for the period through January 28, 2002
- June 6, 2002 for the period through April 29, 2002
- April 30, 2002 for the period through July 26, 2002

On September 4, 2002 Earth Tech personnel shut down the VES at the site to conduct a rebound test. On October 28, 2002 the VES was started and ran for approximately 4.5 hours. Between September 4 and October 28, 2002 the VES ran for a total of approximately 12 hours for spot-checking.

CLAYTON FIELD ACTIVITIES

On October 30, 2002 personnel from Clayton met with Earth Tech personnel to conduct sampling of air emissions at the Lockheed-Martin B-1 Site VES. Clayton and Earth Tech

personnel each collected an exhaust sample using an evacuated Summa canister, connected via a disposable Teflon® tube to the VES unit's sampling port.

During the sampling period, the exhaust flow rate was 2,456 scfm. The two stack analyzers monitoring volatile organic compound (VOC) concentration showed good correlation with readings of 0.43 and 0.40 ppm. The VOC emission rate readings were within acceptable operating conditions for the VES. The 15 minute average VOC emissions rates indicated at the time were 0.8256 lbs/day, the 24 hour average was not available because the VES had only run for approximately one hour prior to sample and data collection due to the current rebound test in progress.

The sample collected by Clayton was delivered to Air Toxics Ltd. in Folsom, California under chain of custody control for analysis by gas-chromatograph/mass spectrometry (GS/MS) in accordance with EPA Method TO-15.

RESULTS OF LABORATORY ANALYSES

The results from the TO-15 analysis of the sample taken on October 30, 2002 indicated that ten (10) compounds were present in concentrations above detection limits. Following are a list of these compounds and the concentrations indicated by the analysis:

Compound	Concentration (ppmv)[1]
Acetone	0.011
Chloromethane	0.0012
1,1-Dichloroethene (DCE)	0.011
Cis-1,2-Dichloroethene	0.0008
Freon 11 (Trichlorofluoromethane)	0.00093
Freon 12 (Dichlorodifluoromethane)	0.0022
Freon 113 (1,1,2-Trichloro- 1,2,2-trifluoro- ethane)	0.0039
Methylene Chloride	0.0014
Trichloroethene (TCE)	0.130
Tetrachloroethene (Perchloroethylene or PCE))	0.040

1 ppmv = parts per million by volume

These results reflect a slight decrease in the total VOC concentration as well as the number of constituents detected. Overall the total VOC concentration range remains at low levels relative to the historical trend.

Using the analytical data, an overall VOC emission rate of 0.246 lb/day was calculated. As previously discussed the 24 hour average VOC reading provided by the continuous monitoring system was unavailable. However, the calculated VOC emission levels are well below the Conditional Use Permit (CUP) limit of 9.8 pounds per day. These results, along with the previous calculated total VOC emissions for the unit, were plotted on Figure 1. Vinyl chloride was not detected in the sample taken. Therefore, its CUP limit of 0.14 pounds per day was not exceeded.

HEALTH RISK ASSESSMENT CALCULATIONS

In accordance with the CUP, the stack concentrations of each constituent and the exhaust flow rates were used to calculate the excess cancer risk resulting from operation of the VES. The first risk calculation was to determine the risk if the unit was operated for a lifetime period of 70 years, evaluating the risk to both workers and local residents for those chemicals specified in SCAQMD Rule 1401, as adopted at the time the unit was permitted. The second risk calculation was to determine the risk to both workers and local residents for the life of the project (the 8.5 year operating period), for all detected chemicals for which carcinogenic risk factors are available.

The resulting cancer risk calculations for both conditions indicated an acceptable Maximum Individual Cancer Risk (MICR) significantly less than one in one million. The results from these calculations, along with the MICR results from previous calculations for the unit, are presented on Figures 2 and 3, for 70 year and 8.5 year calculations respectively.

CONCLUSIONS

Based on the results of the information gathered and samples taken on October 30, 2002, the following conclusions can be made:

- VOC emissions from the VES are well below the CUP limit of 9.8 pounds per day. No sample results have exceeded 1 lb/day since August of 2001. The current result of 0.246 lb day is consistent with the four prior quarterly sampling events. This may be evidence that little rebound is likely to occur and that the treated soil has reached an asymptotic level of VOC recovery that is due to only residual contaminants remaining.

- Since vinyl chloride was not detected, its CUP limit of 0.14 pounds per day was not exceeded. Excess cancer risks (MICR) were less than one in one million for workers and local residents, using both 70-year lifetime and 8.5-year operating period risk calculations.

If you have any questions or require additional information regarding this status report, please contact me at (714) 431-4157.

Sincerely,

Martin L. McClintock

Martin L. McClintock, P.E. No. 5025
Project Engineer
Environmental Services

Attachments: Figure 1 - Daily VOC Emissions
Figure 2 - Human Health Risk (70 Year Lifetime)
Figure 3 - Human Health Risk (8.5 Year Operating Period)
Laboratory Report

cc: Ms. Stacey Ebiner, South Coast Air Quality Management District
George Illes, South Coast Air Quality Management District

FIGURE 1 - DAILY VOC EMISSIONS

LOCKHEED B-1 VES

Independent Monitoring Data

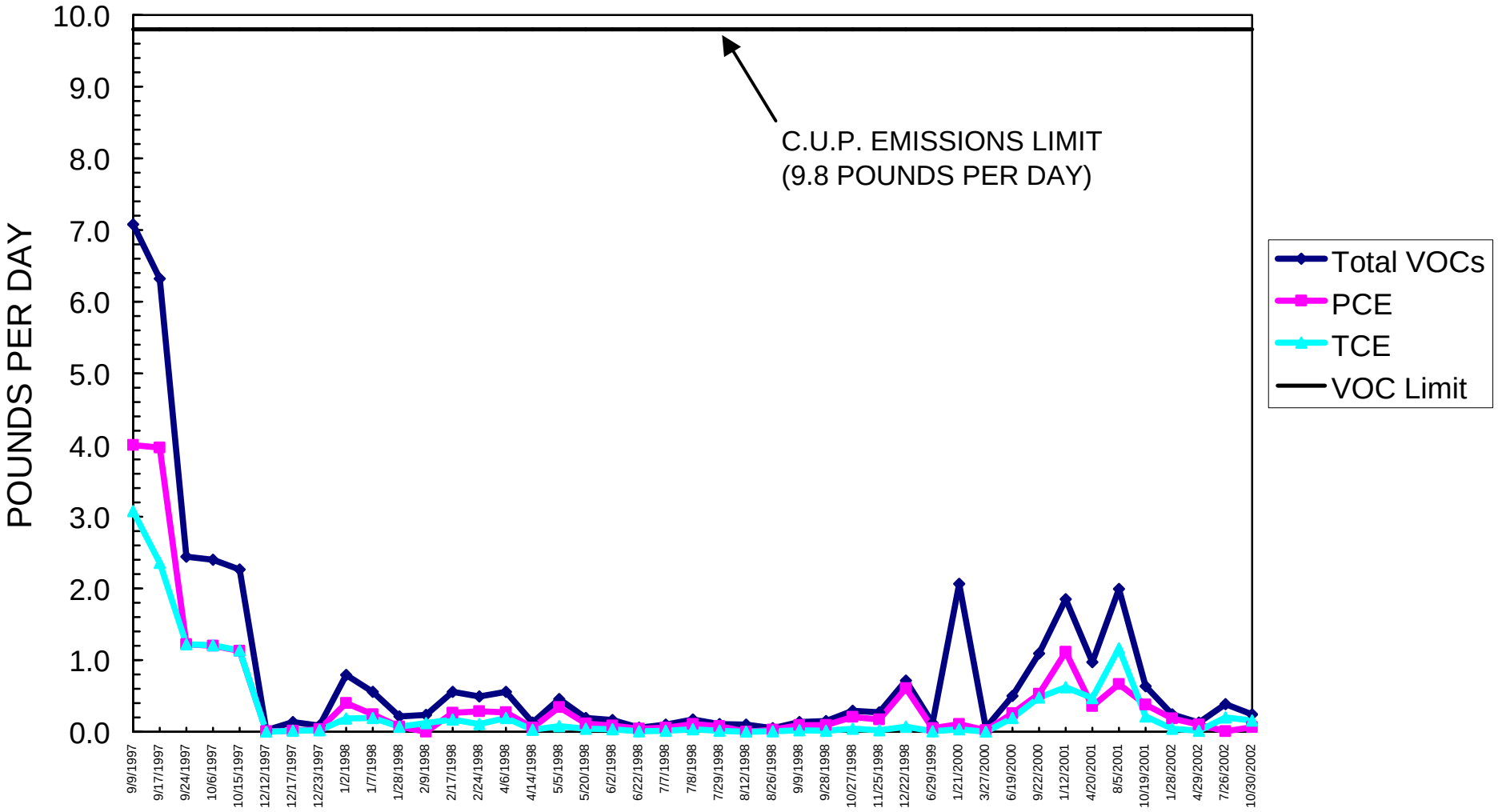

FIGURE 1

FIGURE 2 - HUMAN HEALTH RISK
LOCKHEED B-1 VES
SCAQMD RULE 1401 CHEMICALS
HYPOTHETICAL 70 YEAR LIFETIME

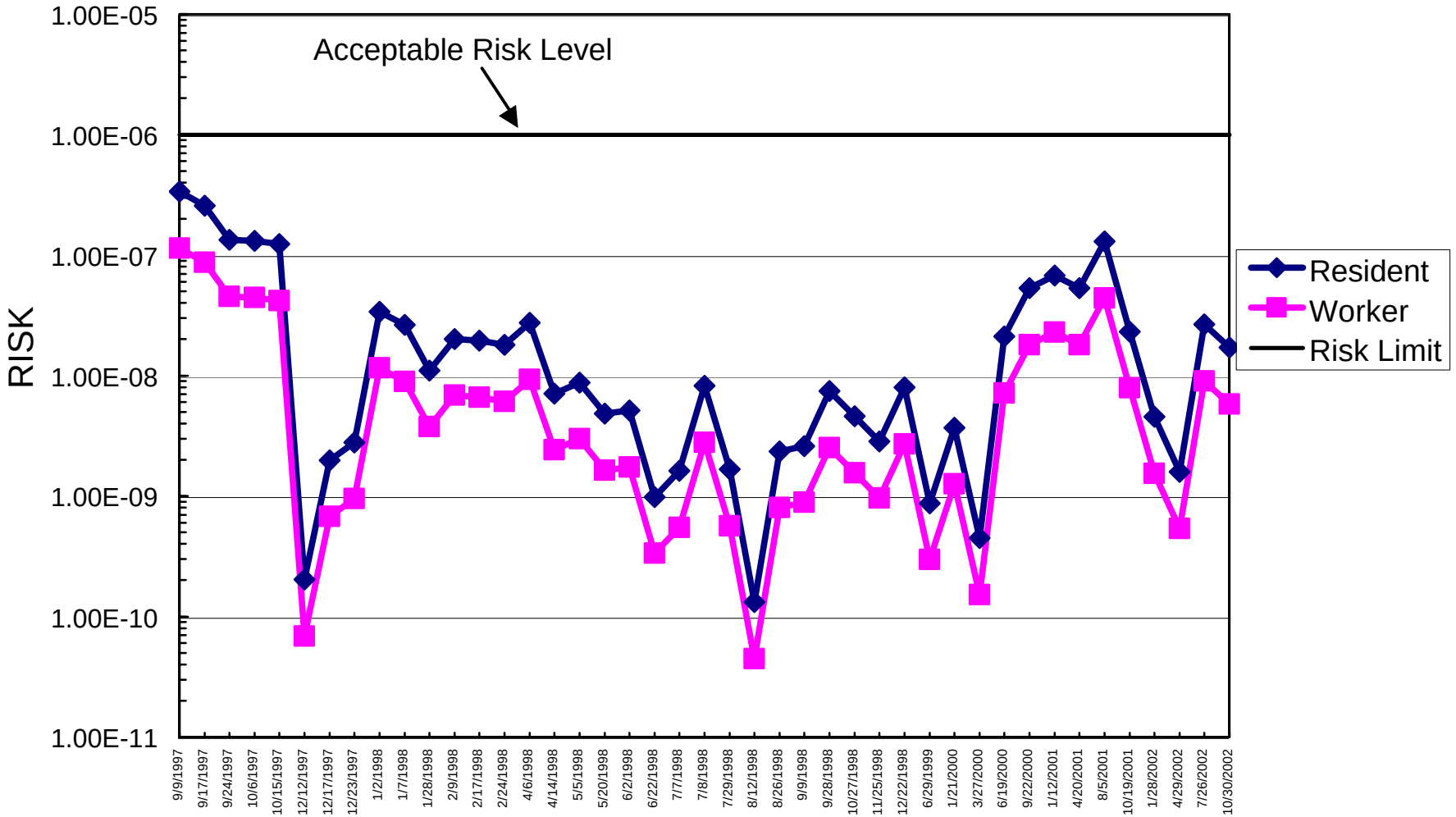

FIGURE 2

FIGURE 3 - HUMAN HEALTH RISK
LOCKHEED B-1 VES
DURING 8.5 YEAR OPERATING PERIOD

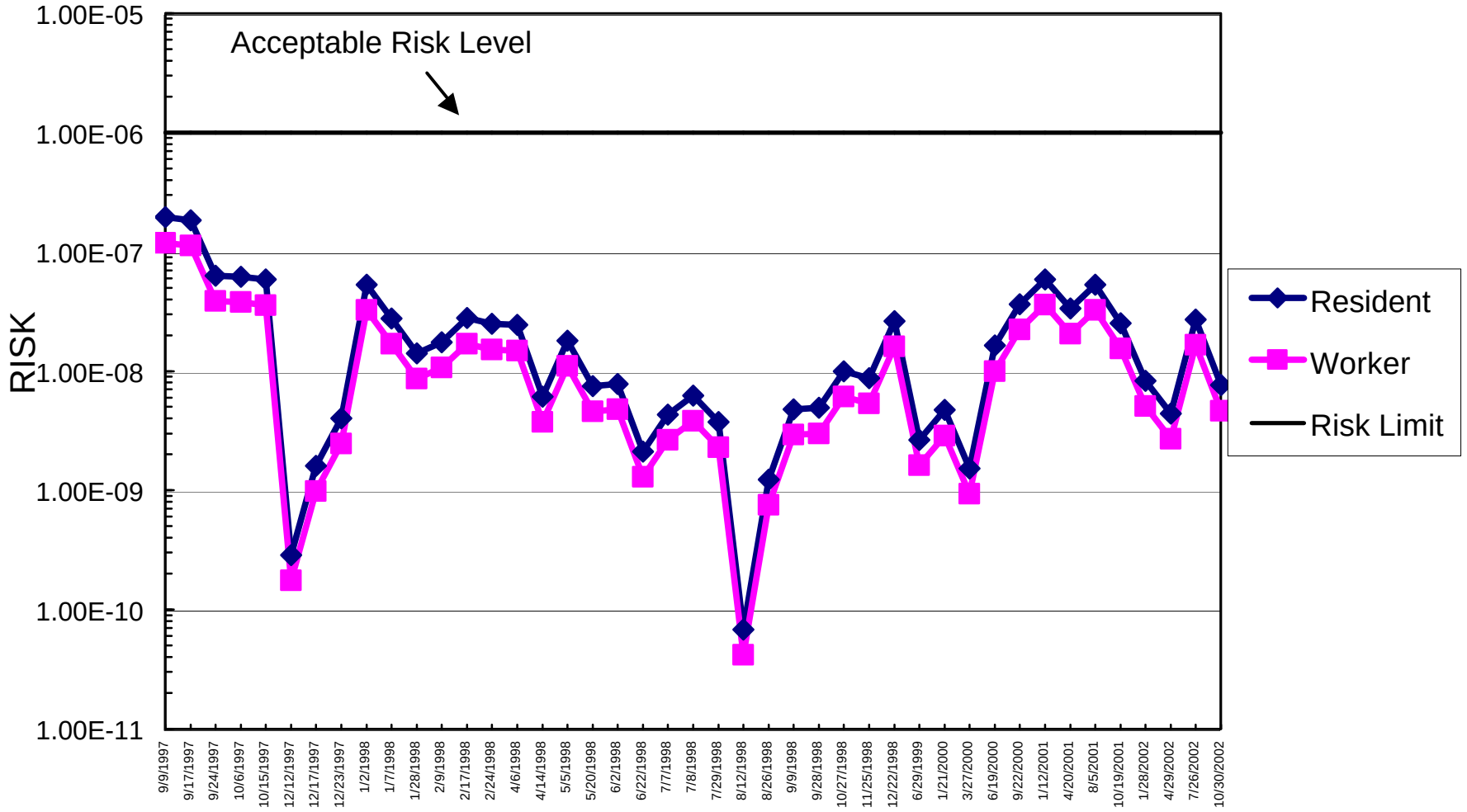

FIGURE 3

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific
E-mail to:samplereceiving@airtoxics.com

@ **AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0211040

Work Order Summary

CLIENT:	Mr. Bill Gendron Clayton Group Services 1565 Mac Arther Blvd. Costa Mesa, CA 92626	**BILL TO:**	Mr. Bill Gendron Clayton Group Services 1565 Mac Arther Blvd. Costa Mesa, CA 92626
PHONE:	714-431-4100	**P.O. #**	NR
FAX:	714-825-0685	**PROJECT #**	8098191.00.000 City of Burbank
DATE RECEIVED:	11/1/02	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	11/12/02		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	B-1 VES-103002	Modified TO-15	2.5 "Hg
02A	Lab Blank	Modified TO-15	NA
03A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Frumarx DATE: 11/12/02

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, NY NELAP - 11291, UT NELAP - 9166389892, LA NELAP/LELAP- AI 30763
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/02, Expiration date: 06/30/03

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Clayton Environmental
Workorder# 0211040

One 6 Liter Summa Canister sample was received on November 01, 2002. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating to 0.5 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. See the data sheets for the reporting limits for each compound.

Method modifications taken to run these samples include:

Requirement	***TO-15***	***ATL Modifications***
Blank	Humid Air Blank	Humid Nitrogen Blank for standard analysis. Dry Nitrogen Blank for low level analysis.
BFB acceptance criteria	CLP protocol	SW-846 protocol
Concentration of IS spike	10 ppbv	25 ppbv for TO-14;10 ppbv for low level
Dilutions for initial calibration	Dynamic dilutions or static using canisters	Syringe dilutions
ICAL %RSD acceptance criteria	30% or less, 40% or less for up to two compounds	30% or less for standard compounds, 40% or less for non-standard and polar compounds or = 30% pooled RSD of all compounds
IS recoveries	Within 40% of mean over ICAL for blanks, and w/in 40% of daily CCV for samples.	Within 40% of CCV recoveries for blank and samples.
IS RTs	± 0.33 min from most recent calibration (either ICAL or daily)	± 0.33 min of RT in daily CCV
Daily CCV	70 - 130%	Standard compounds:70 - 130% for at least 90%;Non-standard and polar compounds: 60 - 140% for at least 80%
RF for quantitation	From daily CCV	From ICAL
MSD scan range	35 - 300 amu	35 - 350 amu

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated Peak.

Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AIR TOXICS LTD.

SAMPLE NAME: B-1 VES-103002

ID#: 0211040-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**k110526**	**Date of Collection:**	**10/30/02**
Dil. Factor:	**1.46**	**Date of Analysis:**	**11/6/02**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.73	3.7	2.2	11
Freon 114	0.73	5.2	Not Detected	Not Detected
Chloromethane	0.73	1.5	1.2	2.6
Vinyl Chloride	0.73	1.9	Not Detected	Not Detected
Bromomethane	0.73	2.9	Not Detected	Not Detected
Chloroethane	0.73	2.0	Not Detected	Not Detected
Freon 11	0.73	4.2	0.93	5.3
1,1-Dichloroethene	0.73	2.9	11	46
Freon 113	0.73	5.7	3.9	31
Methylene Chloride	0.73	2.6	1.4	4.9
1,1-Dichloroethane	0.73	3.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.73	2.9	0.80	3.2
Chloroform	0.73	3.6	Not Detected	Not Detected
1,1,1-Trichloroethane	0.73	4.0	Not Detected	Not Detected
Carbon Tetrachloride	0.73	4.7	Not Detected	Not Detected
Benzene	0.73	2.4	Not Detected	Not Detected
1,2-Dichloroethane	0.73	3.0	Not Detected	Not Detected
Trichloroethene	0.73	4.0	130	710
1,2-Dichloropropane	0.73	3.4	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.73	3.4	Not Detected	Not Detected
Toluene	0.73	2.8	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.73	3.4	Not Detected	Not Detected
1,1,2-Trichloroethane	0.73	4.0	Not Detected	Not Detected
Tetrachloroethene	0.73	5.0	40	270
1,2-Dibromoethane (EDB)	0.73	5.7	Not Detected	Not Detected
Chlorobenzene	0.73	3.4	Not Detected	Not Detected
Ethyl Benzene	0.73	3.2	Not Detected	Not Detected
m,p-Xylene	0.73	3.2	Not Detected	Not Detected
o-Xylene	0.73	3.2	Not Detected	Not Detected
Styrene	0.73	3.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.73	5.1	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.73	3.6	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.73	3.6	Not Detected	Not Detected
1,3-Dichlorobenzene	0.73	4.5	Not Detected	Not Detected
1,4-Dichlorobenzene	0.73	4.5	Not Detected	Not Detected
alpha-Chlorotoluene	0.73	3.8	Not Detected	Not Detected
1,2-Dichlorobenzene	0.73	4.5	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.9	22	Not Detected	Not Detected
Hexachlorobutadiene	2.9	32	Not Detected	Not Detected
Propylene	2.9	5.1	Not Detected	Not Detected
1,3-Butadiene	2.9	6.6	Not Detected	Not Detected
Acetone	2.9	7.0	11	26

AIR TOXICS LTD.

SAMPLE NAME: B-1 VES-103002

ID#: 0211040-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**k110526**	**Date of Collection:**	**10/30/02**
Dil. Factor:	**1.46**	**Date of Analysis:**	**11/6/02**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.9	9.2	Not Detected	Not Detected
2-Propanol	2.9	7.3	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.9	12	Not Detected	Not Detected
Vinyl Acetate	2.9	10	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.9	8.8	Not Detected	Not Detected
Hexane	2.9	10	Not Detected	Not Detected
Tetrahydrofuran	2.9	8.8	Not Detected	Not Detected
Cyclohexane	2.9	10	Not Detected	Not Detected
1,4-Dioxane	2.9	11	Not Detected	Not Detected
Bromodichloromethane	2.9	20	Not Detected	Not Detected
4-Methyl-2-pentanone	2.9	12	Not Detected	Not Detected
2-Hexanone	2.9	12	Not Detected	Not Detected
Dibromochloromethane	2.9	25	Not Detected	Not Detected
Bromoform	2.9	31	Not Detected	Not Detected
4-Ethyltoluene	2.9	14	Not Detected	Not Detected
Ethanol	2.9	5.6	Not Detected	Not Detected
Methyl tert-Butyl Ether	2.9	11	Not Detected	Not Detected
Heptane	2.9	12	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	83	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0211040-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**k110508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/5/02**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.50	2.5	Not Detected	Not Detected
Freon 114	0.50	3.6	Not Detected	Not Detected
Chloromethane	0.50	1.0	Not Detected	Not Detected
Vinyl Chloride	0.50	1.3	Not Detected	Not Detected
Bromomethane	0.50	2.0	Not Detected	Not Detected
Chloroethane	0.50	1.3	Not Detected	Not Detected
Freon 11	0.50	2.8	Not Detected	Not Detected
1,1-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Freon 113	0.50	3.9	Not Detected	Not Detected
Methylene Chloride	0.50	1.8	Not Detected	Not Detected
1,1-Dichloroethane	0.50	2.0	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.50	2.0	Not Detected	Not Detected
Chloroform	0.50	2.5	Not Detected	Not Detected
1,1,1-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Carbon Tetrachloride	0.50	3.2	Not Detected	Not Detected
Benzene	0.50	1.6	Not Detected	Not Detected
1,2-Dichloroethane	0.50	2.0	Not Detected	Not Detected
Trichloroethene	0.50	2.7	Not Detected	Not Detected
1,2-Dichloropropane	0.50	2.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
Toluene	0.50	1.9	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.50	2.3	Not Detected	Not Detected
1,1,2-Trichloroethane	0.50	2.8	Not Detected	Not Detected
Tetrachloroethene	0.50	3.4	Not Detected	Not Detected
1,2-Dibromoethane (EDB)	0.50	3.9	Not Detected	Not Detected
Chlorobenzene	0.50	2.3	Not Detected	Not Detected
Ethyl Benzene	0.50	2.2	Not Detected	Not Detected
m,p-Xylene	0.50	2.2	Not Detected	Not Detected
o-Xylene	0.50	2.2	Not Detected	Not Detected
Styrene	0.50	2.2	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.50	3.5	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.50	2.5	Not Detected	Not Detected
1,3-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,4-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
alpha-Chlorotoluene	0.50	2.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.50	3.0	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.0	15	Not Detected	Not Detected
Hexachlorobutadiene	2.0	22	Not Detected	Not Detected
Propylene	2.0	3.5	Not Detected	Not Detected
1,3-Butadiene	2.0	4.5	Not Detected	Not Detected
Acetone	2.0	4.8	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0211040-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**k110508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/5/02**	

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.0	6.3	Not Detected	Not Detected
2-Propanol	2.0	5.0	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.0	8.0	Not Detected	Not Detected
Vinyl Acetate	2.0	7.2	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	Not Detected	Not Detected
Hexane	2.0	7.2	Not Detected	Not Detected
Tetrahydrofuran	2.0	6.0	Not Detected	Not Detected
Cyclohexane	2.0	7.0	Not Detected	Not Detected
1,4-Dioxane	2.0	7.3	Not Detected	Not Detected
Bromodichloromethane	2.0	14	Not Detected	Not Detected
4-Methyl-2-pentanone	2.0	8.3	Not Detected	Not Detected
2-Hexanone	2.0	8.3	Not Detected	Not Detected
Dibromochloromethane	2.0	17	Not Detected	Not Detected
Bromoform	2.0	21	Not Detected	Not Detected
4-Ethyltoluene	2.0	10	Not Detected	Not Detected
Ethanol	2.0	3.8	Not Detected	Not Detected
Methyl tert-Butyl Ether	2.0	7.3	Not Detected	Not Detected
Heptane	2.0	8.3	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0211040-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**k110506**		**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 11/5/02**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Freon 12	0.50	2.5	117
Freon 114	0.50	3.6	111
Chloromethane	0.50	1.0	127
Vinyl Chloride	0.50	1.3	128
Bromomethane	0.50	2.0	105
Chloroethane	0.50	1.3	115
Freon 11	0.50	2.8	105
1,1-Dichloroethene	0.50	2.0	108
Freon 113	0.50	3.9	90
Methylene Chloride	0.50	1.8	114
1,1-Dichloroethane	0.50	2.0	103
cis-1,2-Dichloroethene	0.50	2.0	115
Chloroform	0.50	2.5	101
1,1,1-Trichloroethane	0.50	2.8	98
Carbon Tetrachloride	0.50	3.2	106
Benzene	0.50	1.6	106
1,2-Dichloroethane	0.50	2.0	106
Trichloroethene	0.50	2.7	92
1,2-Dichloropropane	0.50	2.3	106
cis-1,3-Dichloropropene	0.50	2.3	103
Toluene	0.50	1.9	115
trans-1,3-Dichloropropene	0.50	2.3	94
1,1,2-Trichloroethane	0.50	2.8	86
Tetrachloroethene	0.50	3.4	91
1,2-Dibromoethane (EDB)	0.50	3.9	78
Chlorobenzene	0.50	2.3	94
Ethyl Benzene	0.50	2.2	110
m,p-Xylene	0.50	2.2	106
o-Xylene	0.50	2.2	102
Styrene	0.50	2.2	107
1,1,2,2-Tetrachloroethane	0.50	3.5	94
1,3,5-Trimethylbenzene	0.50	2.5	94
1,2,4-Trimethylbenzene	0.50	2.5	83
1,3-Dichlorobenzene	0.50	3.0	87
1,4-Dichlorobenzene	0.50	3.0	79
alpha-Chlorotoluene	0.50	2.6	92
1,2-Dichlorobenzene	0.50	3.0	84
1,2,4-Trichlorobenzene	2.0	15	72
Hexachlorobutadiene	2.0	22	77
Propylene	2.0	3.5	111
1,3-Butadiene	2.0	4.5	121
Acetone	2.0	4.8	143 Q

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0211040-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**k110506**		**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 11/5/02**

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	%Recovery
Carbon Disulfide	2.0	6.3	118
2-Propanol	2.0	5.0	137
trans-1,2-Dichloroethene	2.0	8.0	116
Vinyl Acetate	2.0	7.2	136
2-Butanone (Methyl Ethyl Ketone)	2.0	6.0	122
Hexane	2.0	7.2	126
Tetrahydrofuran	2.0	6.0	126
Cyclohexane	2.0	7.0	102
1,4-Dioxane	2.0	7.3	97
Bromodichloromethane	2.0	14	101
4-Methyl-2-pentanone	2.0	8.3	130
2-Hexanone	2.0	8.3	116
Dibromochloromethane	2.0	17	80
Bromoform	2.0	21	76
4-Ethyltoluene	2.0	10	136
Ethanol	2.0	3.8	124
Methyl tert-Butyl Ether	2.0	7.3	99
Heptane	2.0	8.3	140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	107	70-130

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this documen: indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

Contact Person: Gustavo Valdivia
Company: Clayton Group Services
Address: 1565 MacArthur City: Costa Mesa State: CA Zip: 92626
Phone: 714 431 4100 FAX: 714 875 0685
Collected By: Signature:

Project info:
P.O. #:
Project #: 80 98171.00.000
Project Name: City of Burbank

Turn Around Time:
☑ Normal
☐ Rush _____ Specify

ML 11/2/02

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	B-1-VES-103002	10.30.02/945	TO-15	27.5"Hg	0	3.5"Hg

Relinquished By: (Signature) Date/Time: 10.30.02/1100
Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time:
Received By: (Signature) Date/Time: Tonya Bokal ATL 11/1/02 925

Notes:

Lab Use Only

Shipper Name	Air Bill #	Opened By:	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
FedEx	837541748954	TB	—	Good	Yes No (None)	0211040

Form 1292 rev. 09